

**DEGADUR® 420**

Middle-viscous elasticized methacrylate resin for manufacturing of 2-component floor coatings. For trowel application, self-levelling, smooth or broadcast indoor coatings on concrete and metal surfaces. For wet and dry areas.

**Typical properties**

Property	Value	Unit	Method
Form supplied	Slightly turbid liquid		
Viscosity at 23 °C	160 - 200	mPas	Brookfield DV2, sp. 2/60 rpm
Density at 20 °C	1.01	g/cm <sup>3</sup>	DIN 51757
T <sub>max</sub> at 23 °C	18 - 26 min / 140 - 165 °C		70.0 g DEGADUR® 420 + 1.4 g BPO 50%
Flash point	10	°C	MMA, DIN 51755

**General marks**

Activator	DEGADUR® 420 is preactivated for temperatures from 5 °C to 30 °C
Initiator/Hardener	BPO-Hardener (50 %), depending on temperature
Shelf life	at ≤ 25 °C minimum 12 months in original containers / from date of delivery at ≤ 30 °C minimum 6 months in original containers / from date of delivery
Storage	Protect against direct sunlight. At temperatures below 15 °C the paraffin dissolved in the binder may precipitate. The material must be stirred thoroughly before use.
Packaging	Steel drum, 190 kg net
More accounts	see technical data sheet DEGADUR® 420

## DEGADUR® 420

### Properties

DEGADUR® 420 coatings can be highly filled and have good levelling properties. DEGADUR® 420 is preferably used as a self levelling coating in coat thicknesses of 2 - 4 mm because of its good wetting power of fillers and pigments. Broadcast, paint-roller and trowel applied systems are also possible.

#### Guide formulations:

##### 420/1 - self-leveling / smooth / pigmented or broadcast with flakes / 2 - 4 mm

30	% by wt.	DEGADUR® 420
20.5	% by wt.	fine filler 0 - 50 µm (no filler based on carbonate!)
47.5	% by wt.	quartz sand (0.06 - 0.3 mm)
2	% by wt.	pigment powder

#### Guide formulations:

##### 420/2 - self-leveling coating / broadcast with coloured sand / 3 - 5 mm

26	% by wt.	DEGADUR® 420
22	% by wt.	fine filler 0 - 50 µm (no filler based on carbonate!)
51	% by wt.	quartz sand (0.06 - 0.3 mm)
1	% by wt.	pigment powder

#### Guide formulations:

##### 420/3 - trowel applied coating / 4 - 6 mm

22.5	% by wt.	DEGADUR® 420
59.5	% by wt.	coloured quartz sand or quartz sand (0.7 - 1.2 mm)
18	% by wt.	coloured quartz sand or quartz sand (0.1 - 0.4 mm)

#### Guide formulations:

##### 420/4 - vertical application / 0.5 - 2 mm

79	% by wt.	DEGADUR® 420
10	% by wt.	pigment powder
10	% by wt.	fine filler 0 - 50 µm (no filler based on carbonate!)
1	% by wt.	Sylothix 51

## DEGADUR® 420

### Application

The DEGADUR® **420/1** and **420/2** formulations are applied with a trowel or an adjustable-rake in a minimum thickness of 2 mm. For smooth surfaces a refinishing with a spiked roller is advisable.

For decorative surfaces, coloured flakes (3 - 4 mm), coloured quartz sand (coated with EP or PU resin) or Granodiorite with a size of 0.3 - 0.8 mm or 0.7 - 1.2 mm can be broadcast onto the self-levelling formulation.

The application of the DEGADUR® **420/3** mixture takes place with an adjustable-rake and is afterwards smoothed with a flexible trowel.

The total catalysed quantity of **420/4** formulation is completely poured out onto the primed substrate, distributed by means of a finely serrated (2 - 4 mm teeth) rubber blade and rolled out with a nylon-roller (12 - 14 mm pile woven).

The surface of DEGADUR® 420 coatings need a clear or pigmented DEGADUR® topcoat.

### Pot life and hardening time at different temperatures::

Formulations 420/1, 420/2, 420/3, 420/4

Temperature [°C] **)	Hardener [% by wt.] *)	Pot life [min] ***)	Hardening time [min]
5 - 10	4.0	approx. 35	approx. 65
10 - 15	2.5	approx. 30	approx. 65
15 - 20	2.0	approx. 30	approx. 55
20 - 25	1.0	approx. 25	approx. 45
25 - 30	1.0	approx. 15	approx. 30
> 30	1.0	approx. 13	approx. 30

\*) Quantity calculated on DEGADUR® 420.

\*\*) Temperature statements refer to resin-, floor- and air-temperature.

\*\*\*) The indication of the approximate pot life always refers to the lower temperature.

Note: All values are derived from laboratory tests. Deviations caused by environmental factors might occur.

### More accounts

All formulations have to be applied on preprimed surfaces!

Before top coat is applied onto a body coat which had been scattered with flakes, it is essential to grind the surface by means of a dedicated grinding facility, e.g. soft nylpads. Subsequently all the not fixed particles must be removed. This step avoids unevenness and micro bubbles.

Use efficient air ventilation in order to provide a safe surface curing.

## DEGADUR® 420

Typical properties are approximate reference values. If you need product specifications please contact us.

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